



DISTRICT EIGHT POLK COUNTY HEALTH DEPARTMENT

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BARTOW, FLORIDA 33830

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305 WEST CENTRAL AVENUE
LAKE WALES, FLORIDA 33853

103 EAST CANAL STREET
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LAKELAND, FLORIDA 33801

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WAVERLY, FLORIDA 33877

2 NORTH REEDY BLVD.
FROSTPROOF, FLORIDA 33843

243 E. LAKE AVENUE
AUBURNDALE, FLORIDA 33823

July 14, 1980

SITE: Florida Phosphate
BREAK: 12-8
OTHER: V.13

Mr. Mike Yencso, Land Manager
Drummond Coal Company
P. O. Box 1549
Jaspar, Alabama 35501

RE: Results of Radiation Survey on Drummond/Lakeland Site

Dear Sir:

This letter is in response to your request for a Radiation Survey on your Lakeland Property. Please find enclosed, a map of the property in question. We have finished this survey and the results are as follows:

A total of two hundred eighty seven (287) measurements were taken. These measurements represent an exposure at approximately three (3) feet from the ground surface. Readings are in microRoentgens per hour. They have been standardized to conform to readings from pressurized Ion chambers. Values ranged from a low of eight (8) mR/hr to a high of thirty-six (36) mR/hr with the average measurement being eighteen point one (18.1) mR/hr.

Since there are no homes built on this land, we do not know what a typical indoor radon daughter working level for homes built on this land is. But if we compare this gamma reading to those obtained from previous surveys of homes built on similar land; we can predict that, of the total number of residential structures built on this property, between 38 and 42 percent of these structures will have indoor working levels greater than .02, if no control technology is utilized. This is the remedial action guideline set forth by the United States E. P. A. in the Federal Register/ Vol. 44 No. 1281/ Monday July 2, 1979.



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Mr. Mike Yencso
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I wish to point out that this indoor working level to outdoor gamma level is not a hard and fast rule. It is a method of estimating what working level values would be for homes built on a particular piece of property by comparing the land to land which already has homes built on it.

I must also point out that a large area of this property (see Sections F and H of the enclosed map) was inaccessible to us for measurement, due to the dense growth in the area. The inclusion of measurements from this area could either increase or decrease the average measurement for the total property, depending on whether they are higher or lower than the present average. It is highly probable that they will be comparable and thus not change the average much in either direction.

The major conclusion that can be drawn concerning this piece of property, is that it has a higher average measurement than normal background (2 to 3 times higher) and that a significant number of the homes built on this property will probably have indoor radiation levels greater than the recommended Federal guidelines. This conclusion is based on the assumption that no control techniques will be used in the construction of the homes.

I have enclosed a copy of an E. P. A. publication concerning control techniques that may be of some help to you.

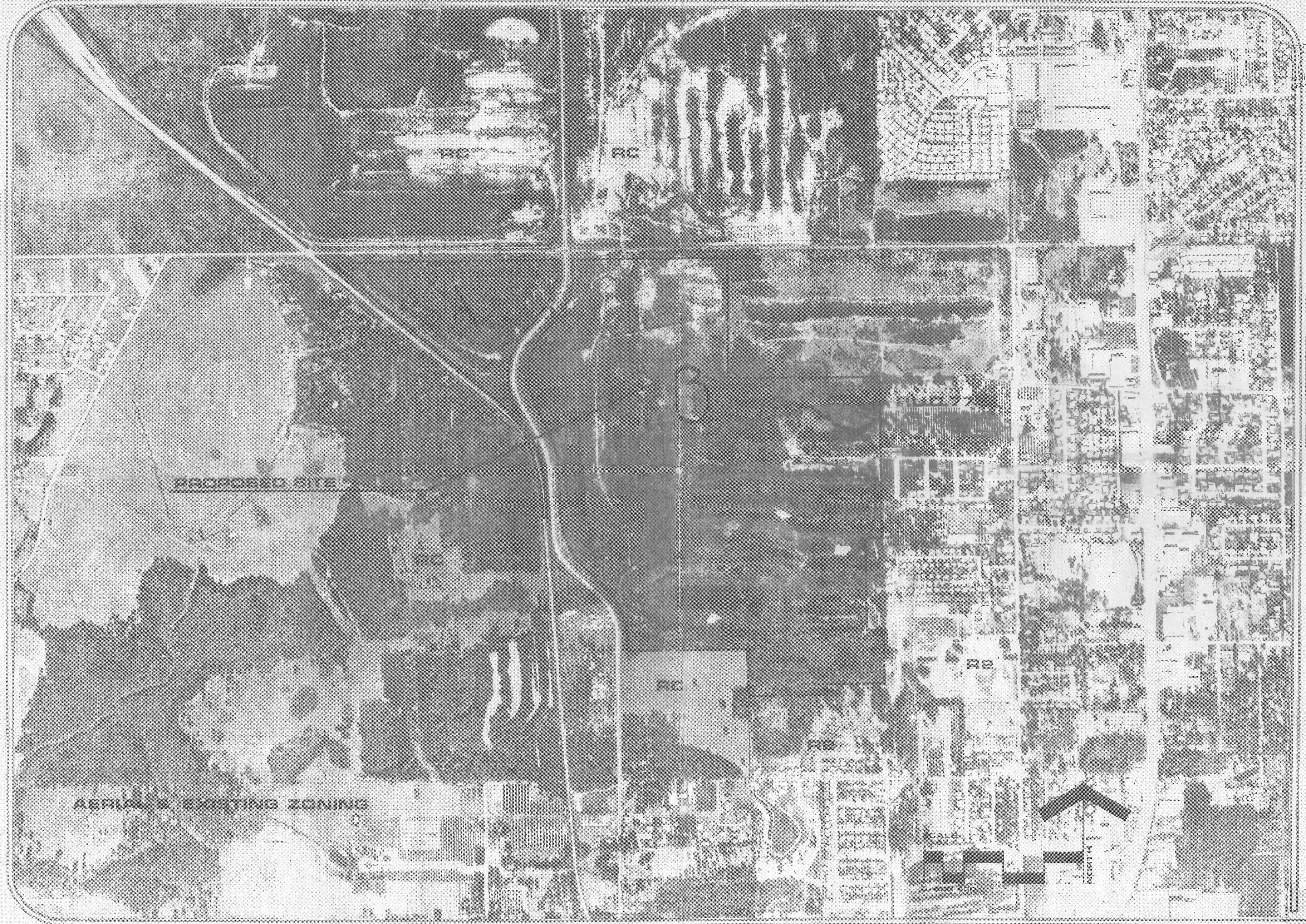
If you have any further questions concerning this matter, please do not hesitate to contact me.

Sincerely,

Harlan Keaton
Public Health Physicist II

ENC/ 1
CC/ James R. Chastain, Jr.
Donald R. Guthrie

65059



SEP 27 1978
POLK COUNTY HEALTH DEPT.

GLATTING LOPEZ & ASSOCIATES
PLANNING AND DESIGN CONSULTANTS
116 EAST COMSTOCK AVENUE
WINTER PARK, FLORIDA 32789 • (305) 844-6588
CHASTAIN-SKILLMAN INC.
CONSULTING ENGINEERS
LAKELAND, FLA.

DRUMMOND / LAKELAND
POLK COUNTY, FLORIDA
PREPARED FOR:
THE DRUMMOND COMPANY
JASPER, ALABAMA

DRANE FIELD RD.
PROPOSED 200' R.O.W.

EXISTING TOPOGRAPHY

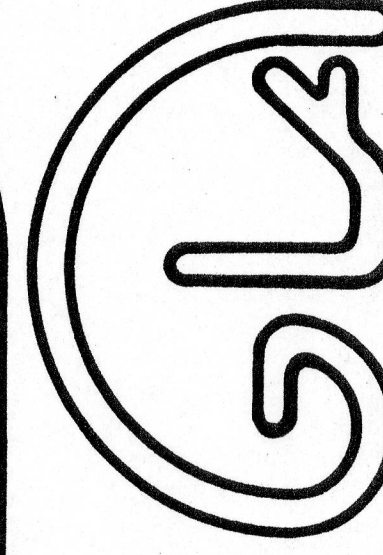
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NORTH

DRUMMOND / LAKE LAND
POLK COUNTY, FLORIDA
PREPARED FOR:
THE DRUMMOND COMPANY
JASPER, ALABAMA

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PLANNING AND DESIGN CONSULTANTS
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CHASTAIN-SKILLMAN INC.
CONSULTING ENGINEERS
LAKE LAND, FLA.



MASTER LAND USE PLAN PHASE 1

[Symbol]	SINGLE FAMILY LOTS 1500 S.F. TO 3000 S.F.
[Symbol]	TOWNHOMES 1500 S.F. TO 3000 S.F.
[Symbol]	APARTMENT UNITS 1500 S.F. TO 3000 S.F.
[Symbol]	OFFICE BLDG. 1500 S.F. TO 3000 S.F.
[Symbol]	COMMERCIAL CENTER 1500 S.F. TO 3000 S.F.
[Symbol]	TENNIS & SWIM CLUB 1500 S.F. TO 3000 S.F.
[Symbol]	HILLS & OPEN SPACE 1500 S.F. TO 3000 S.F.
[Symbol]	LANDSCAPE RETENTION 1500 S.F. TO 3000 S.F.
TOTAL UNITS: 500	

SCALE: 0 100 200 800

NORTH

DRUMMOND / LAKE LAND

POLK COUNTY, FLORIDA

PREPARED FOR:

THE DRUMMOND COMPANY

JASPER, ALABAMA

GLATTING LOPEZ & ASSOCIATES

PLANNING AND DESIGN CONSULTANTS

116 EAST CORK STOCK AVENUE

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